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24 July 1962

MEMORANDUM FOR: Chief, Technical Plans and Development Staff

THROUGH: Chief, Technical Development Branch

SUBJECT: Staff Study, [redacted] Proposal to Evaluate the Multiple Image Correlator", MPIC Proposal [redacted] 25X1A 25X1A

1. PROBLEM 25X1A

It is necessary to fully determine the operational characteristics of the Multiple Image Correlator built by [redacted] under Contract [redacted] 25X1A

2. FACTS

a. It has been satisfactorily proved that multiple image correlation will produce an image with more apparent information content than any one of the correlated images.

b. We know there are some limitations concerning the images to be correlated in terms of scale differential, aspect ratio, contrast range, which will determine the degree of correlation and the anticipated results. We do not know exactly what these limits are.

c. We know the device, as it is at present, can be improved in terms of automation. We do not know how far automation can be carried.

3. DISCUSSION

There is a strong possibility that a second,(and probably more), image correlator will be required by May 1963. It is important that Model II be an improved version and equally important that we know not only operational limits but also operational procedures. [redacted] as builders of the first and only operational image correlator in this country, have the technical personnel who are not only familiar with the technique but also with the instrument they have built. It would seem to be a wise decision to take advantage of our present investment in [redacted] technical competence and have them carry out the evaluation program proposed. [redacted] are prepared to cut the time element from six months to four and a half months if their evaluation is concurrent with a design program for an improved model. This, too, is a logical

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procedure as design of an improved model would depend on the evaluation program. A firm price for an improved version would be impossible to state and, if required, [redacted] would be prepared to give a budgetary figure which would depend on the evaluation program and new design parameters derived therefrom.

4. RECOMMENDATIONS

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a. That we contract with [redacted] for a full evaluation of the present model as proposed by [redacted]

b. That we indicate a desire for Model II and request a budgetary proposal as soon as possible after the start of evaluation which would result in a fully operational Model II in May 1963.

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RPIC/TPDS/[redacted] (35 1)

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